Did you know that...

- **Over 99% of the body's total calcium is stored as calcium phosphate in bones and teeth.**
- **Calcium and phosphorus are essential for all cell development and tissue growth.**
- **Calcium and phosphorus are required in the body more than any other inorganic minerals.**

Reparen may assist with...

Ashley Harrison
Professional Rugby League player

Why choose Reparen?

- Reparen supplies the two minerals the body needs most: calcium and phosphorus.
- Reparen is a great source of essential ionic calcium that the body uses for countless cellular and metabolic activities.
- Reparen is rapidly and easily absorbed into the body, so it is particularly useful for the elderly, sports people and those with poor digestion.
- Reparen improves calcium and phosphate balances in the body.
- Reparen is fast acting on muscular cramps and spasms. It plays a major role in repairing fractures, general sports injuries and wounds. Reparen also aids in treating and preventing osteoporosis.
- Reparen aids energy production, muscle and nerve function and normal tissue repair.
- Reparen is a therapeutic mineral supplement suitable for most men and women, from growing children to sports people, pre- and post-menopausal women, through to the elderly.

When should you use Reparen?

Reparen can be used for:

- **osteoporosis and bone repair**
- **tissue repair**
- **sports injuries**
- **muscular cramps and spasm**
- **healthy heart function**
- **low cellular energy**

Reparen AUST L120957

Each (vegetable) capsule contains:
750mg monobasic calcium phosphate as Calciphos®
equivalent elemental calcium 119.25mg

Dosage:
2 capsules twice daily with or after meals, or as directed by a health care professional.

Indications:
Reparen assists in the prevention and treatment of osteoporosis. Aids in wound and tissue repair, bone strengthening and fracture recovery. Provides symptomatic relief of muscular cramps and spasms. Helps maintain healthy heart function, healthy nerve function and cellular bioenergy. Source of ionic calcium and phosphorus. Maintains important calcium and phosphorus balances in the tissue. Reparen helps improve and maintain general health and wellbeing.

Pack size:
60 or 120 capsules.

Hypoallergenic formula:
This product contains no wheat, yeast, soy, alfalfa, milk or corn allergens, salt, sucrose, starch, gelatin, gluten, wax, hydrogenated oils, artificial colours, flavours or preservatives.

Vegan friendly.

Use only as directed. If symptoms persist seek the advice of a health care professional.

Reparen – *better health, improved recovery.*

Available from

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Reparen

For better health and improved recovery

Water soluble ionic calcium phosphate

Bone, tissue and muscle support complex

Vegan friendly

ICL Health

Reparen – Healing and Repairing

Soluble calcium

Compared with many popular calcium supplements, Reparen has superior solubility in water, acids and other biological fluids. Which means it is more easily broken down within the digestive tract and absorbed into the blood stream. Reparen is then quickly distributed throughout the body wherever it is needed most.

Ionic calcium

Reparen provides the body with an immediate source of ionic or free calcium. Research shows that the body requires this essential form of calcium for many vital cellular, neuromuscular, hormonal and biochemical activities. Ionic calcium is found in biological fluids such as blood and lymph. About 50% of all the calcium found in blood is ionic.

Evidence suggests that ionic calcium is the most important form of calcium in the blood.

Biologically friendly calcium

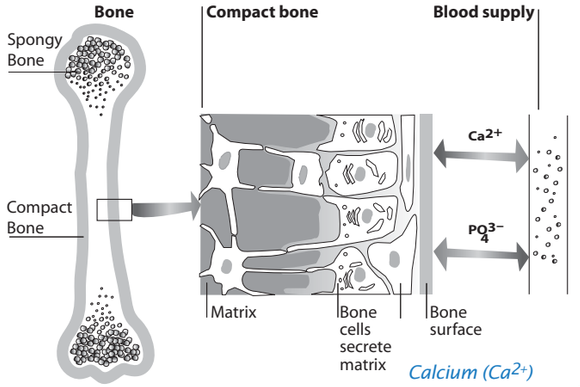
Reparen's calcium phosphate formulation is more biologically friendly because it provides the body with calcium in its most needed form.

99% of body calcium is stored as calcium phosphate. Calcium and phosphorus are important minerals individually but they also act synergistically within the body in a range of major metabolic processes.

Some conditions caused by calcium deficiency

- **Osteoporosis**
- **Poor fracture union and tissue repair**
- **Muscular cramps and spasms**

Minerals needed for bone formation



Calcium (Ca^{2+}) and phosphate (Po_4^{3-}) ions are the major minerals needed for healthy bone matrix formation. The matrix performs two main functions: it acts as a reservoir supplying the body (via the blood supply) with ionic minerals as required, and it gives bone its strength and rigidity.

Are you getting enough calcium?

Calcium is an essential mineral for strong bones and teeth, tissue growth and repair, reliable muscle contractions, countless metabolic functions, a healthy heart and nervous system and countless metabolic functions. A good high calcium diet includes milk, cheese and other dairy products, canned fish with bones, tofu, nuts, kale and kelp. Even people with the best dietary habits, however, may not be getting or absorbing enough calcium to meet the body's needs.

Why is phosphorus important?

Phosphorus is essential for bone and tooth formation, cell growth, and heart and kidney function. It also helps the body to utilise vitamins and helps convert food to energy. Phosphorus is found in most foods, but the correct balance of phosphorus and calcium is required to maintain good health.

What is Reparen?

Reparen is a rapidly absorbed source of ionic calcium phosphate that helps to maintain good health. Reparen is an original formula made from a special high-grade preparation of monobasic calcium phosphate called Calciphos® that improves vital calcium and phosphate balances in the body.

Breakthrough discovery

Over the course of 30 years' research, Leonid L. Shafransky discovered and pioneered the use of monobasic calcium phosphate in human health therapies.

Using infrared spectroscopy analysis, Shafransky showed that monobasic calcium phosphate was an essential compound in binding organic and non-organic components within tissue structures. His research identified monobasic calcium phosphate as one of the first compounds to disappear from bone tissue after disease and injury.

Therapeutic evidence

Shafransky found that by supplementing with a special monobasic calcium phosphate preparation he could improve and maintain the balance of calcium and phosphate within the body. His research suggested that therapeutic amounts of monobasic calcium phosphate administered to patients helped to improve the repair of normal tissues and significantly aid many serious health conditions.

Recent research

A recent study found that increasing dietary calcium on its own can decrease absorption of phosphorus. Phosphorus deficiency can then lead to bone demineralisation. The study concluded that elderly and people with poor nutritional status should receive a calcium phosphate supplement to prevent phosphorus deficiency (Heaney RP & Nordin BEC (2002), Calcium effects on phosphorus absorption, *J Am Coll Nutr* 21, 239-44).

Why do you need calcium and phosphorus?

Strong structures: Bones and teeth are hardened and strengthened by crystals of hydroxyapatite, which are based on calcium phosphate. Calcium forms part of the extra cellular matrix commonly referred to as "ground substance". All tissues are held together by this ground substance, including joints, membranes, skin and hair.

Tissue growth: DNA and RNA (genetic materials that regulate cell division and growth) contain phosphorus; and require calcium for cell division.

Tissue and wound repair: Calcium phosphate plays a major role in repairing fractures, brittle bones, sports injuries, wounds and traumas.

Muscular activity: A good supply of calcium ions is crucial for initiating muscle contraction. If calcium levels fall, the nerve cell membrane becomes less stable and may 'fire' more easily. As a result, the muscles supplied by these nerves may twitch, spasm or cramp. Phosphate is used to produce ATP (the compound involved in energy transfer) used in all muscular activity.

Nerve function: Calcium plays an important role in nerve transmission and is also essential for the release of neurotransmitters.

Hormone secretion: Calcium is essential for controlling glandular function and hormone secretion. For example the pancreas needs calcium to secrete insulin.

Enzyme activity: Calcium activates certain enzymes and assists in transporting nutrients through the cell membrane. Phosphorus is a component of several vital enzymatic systems.

Blood: Ionic blood calcium is critical to many of the body's biochemical activities and helps to regulate blood clotting.

Cellular energy: A balance of calcium and phosphate is essential for robust and healthy cell functioning. Phosphate is a component of ATP (energy).